

CONTENTS

Volume 4, Issue Nos. 1-4

SOFTWARE—PRACTICE & EXPERIENCE

Issue No. 1, JANUARY-MARCH

Editorial	3
S. S. Coleman, P. C. Poole and W. M. Waite: The Mobile Programming System, Janus	5
L. E. Nolan and J. C. Strauss: Workload Characterization for Timesharing System Selection	25
R. G. Hamlet: User-Like Executives	41
M. V. Zelkowitz and W. G. Bail: Optimization of Structured Programs	51
P. B. Schneck: The Myth of Multiprogramming	59
T. Lang and D. A. Fox: A General Purpose Task Queueing Mechanism for Small Machines	63
W. J. Milne: A Simple Interactive Graphics Facility	71
M. Marcotty and H. Schutz: The Systems Programming Language, Malus	79
D. G. Bate: Design and Implementation of an Interactive Test Bed	91
Short Communications	111

Issue No. 2, APRIL-JUNE

Editorial	115
J. L. Elshoff, R. Beckermeyer, J. Dill, M. Marcotty and J. Murray: Handling Asynchronous Interrupts in a PL/I-like Language	117
G. L. Farr: Virtual Storage on ICL 1900's	125
A. M. Bauer and H. J. Saal: Does APL Really Need Run-time Checking?	129
P. J. Brown: Writing Software in ALGOL	139
K. J. MacCallum and L. T. Shafe: A Mixed Language System POP-2 and FORTRAN	145
P. Desjardins: Dynamic Data Structure Mapping	155
D. A. Jones and N. J. Partington: A Software Teletype Exchange	163
R. E. Thomas and D. C. Toll: Implementation of a Management Game	171
R. S. Scowen and B. A. Wichmann: The Definition of Comments in Programming Languages	181
Short Communications	189

Issue No. 3, JULY-SEPTEMBER

Editorial	195
H. Gomaa: An Exercise in Resource Allocation	199
M. J. Spier, T. N. Hastings and D. N. Cutler: A Storage Mapping Technique for the Implementation of Protective Domains	215
W. R. Franta and P. A. Houle: On a Loose Communication Between Dissimilar CDC6000 Operating Systems	231
M. R. Williams: Heuristic Procedures (If They Work—Leave Them Alone)	237
H. E. Kulsrud: Some Statistics on the Reasons for Compiler Use	241
T. W.-S. Plum: Random Search on the 8-Queens Problem	251
K. Wong and J. C. Strauss: Use of a Software Monitor in the Validation of an Analytic Computer System Model	255
P. G. Barker: POP-2 Performance on a Small 1900 Machine	265
J. R. Bell: Rapid Calculations of Subscripted Array Addresses	275
P. M. Girard, I. H. Rose and D. B. Scott: Implementation of a Graphics and Text Output Retrieval System	279
C. Wrangle Barth: Notes on the case Statement	289
Short Communications	299

Issue No. 4, OCTOBER-DECEMBER

Editorial	307
R. M. Footit and C. Whitby-Strevens: The University of Warwick Modular One Operating System	309
N. Chapin: New Format for Flowcharts	341
B. G. Ryder: The PFORT Verifier	359
J. Palme: List Structures in SIMULA and PL/1—a Comparison	379
P. Hazel: A General-Purpose Text Editor for OS/360	389
Short Communications	401
Volume Title Page	409
Volume Contents	411
Author Index	413
Key Words	415